Installation Operation and Maintenance Instructions

Refrigerator Models

30ARM
61ARM
3OARM
6OARM
6ADAM

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Important Safety Instructions

Warnings and safety instructions appearing in this guide are not meant to cover all possible conditions and situations that may occur. Common sense, caution, and care must be exercised when installing, maintaining, or operating this appliance.

Recognize Safety Symbols, Words, and Labels.

⚠ CAUTION

CAUTION-Hazards or unsafe practices which could result in personal injury or property or product damage.

⚠ WARNING

WARNING-Hazards or unsafe practices which could result in personal injury.

NOTE

NOTE-Important information to make a problem free installation.

Remove Packaging

Your refrigerator has been packed for shipment with all parts that could be damaged by movement securely fastened. Cut the banding material at the bottom of the carton, unfold the carton at the bottom and remove the carton from the appliance. Remove the plastic bag, styrofoam corner posts and any tape holding the door closed and internal components in place. The owners manual is shipped inside the refrigerator in a plastic bag along with the warranty registration card.

Important

Keep your carton packaging until your refrigerator has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage in transit. Afterwards please dispose of all items responsibly in particular the plastic bags which can be a suffocation hazard.

Note to Customer

This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the retailer upon acceptance of the shipment. Claims for loss or damage sustained in transit must be made to the retailer.

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER - FILE THE CLAIM WITH THE RETAILER.

NOTE

If the unit was shipped or has been laying on its back for any period of time allow the refrigerator to sit upright for a period of at least 24 hours before plugging in. This will assure oil returns to the compressor. Plugging the refrigerator in immediately may cause damage to internal parts.

Warranty Registration

It is important you send in your warranty registration card immediately after taking delivery of your refrigerator or you can register online at www.marvelrefrigeration.com.

The following information will be required when registering your unit.
Model Number
Serial Number
Date of Purchase
Dealers name and address

The model number and serial number can be found on the serial plate which is located inside the cabinet on the left side near the top.

⚠ CAUTION

Help Prevent Tragedies

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous - even if they sit out for "just a few days".

If you are getting rid of your old refrigerator, please follow the instructions below to help prevent accidents.

Before you throw away your old refrigerator or freezer:

- Take off the doors or remove the drawers.
- Leave the shelves in place so children may not easily climb inside.

INSTALLING YOUR REFRIGERATOR

Select Location
The proper location will ensure peak performance of your appliance. We recommend a location where the unit will be out of direct sunlight and away from heat sources. To assure your product performs to specifications the recommended installation location temperature range is from 65 to 90°F (18 to 32°C).

⚠ CAUTION

Outdoor Installation
Only the 3OARM & 6OARM models are suitable for outdoor installations. A ground fault circuit interrupter electrical receptacle is to be used to supply electrical power to the refrigerator for outdoor applications. Contact an electrician if you need to install one to supply electrical power to your outdoor refrigerator. Do not install in an environment where the unit will be exposed to direct sun exposure as this may result in unsatisfactory performance.

Cabinet Clearance
Ventilation is required from the bottom front section of the unit. Keep this area open and clear of any obstructions. Adjacent cabinets and counter top can be installed around the unit as long as the grille and door access remain unobstructed.

⚠ CAUTION

Front Grille
Do not obstruct the front grille. The openings within the front grille provides air to flow into and exit from the refrigerator condenser. For this reason it is important this area to not be obstructed and be kept clean. Marvel does not recommend the use of custom made grilles as air flow may be restricted because of inadequate openings. (See Figure 1).

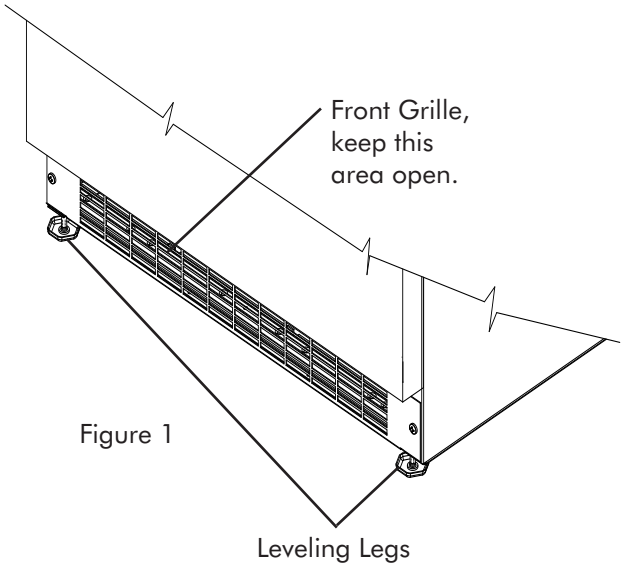


Figure 1

Leveling Legs
Adjustable legs at the front and rear corners of the unit should be set so the unit is firmly positioned on the floor and level from side to side and front to back. Turn leveling legs clockwise to raise unit, counterclockwise to lower it. (See Figure 1).

⚠ CAUTION

- **Do not splash or spray water from a hose on the refrigerator! Doing so may cause an electrical shock, which may result in severe injury or death.**
- **This unit should not, under any circumstances, be ungrounded.**

Grounding Method
This product is factory equipped with a power supply cord that has a three-pronged, grounded plug. It must be plugged into a mating grounding type receptacle in accordance with the National Electrical Code and applicable local codes and ordinances (see Figure 2). If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to exchange the existing receptacle in accordance with the National Electrical Code and applicable local codes and ordinances. The third ground prong should not, under any circumstances, be cut or removed.

Electrical Connection
115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

⚠ CAUTION **Do not use an extension cord with this appliance.**

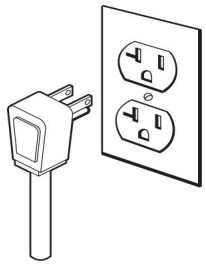


Figure 2

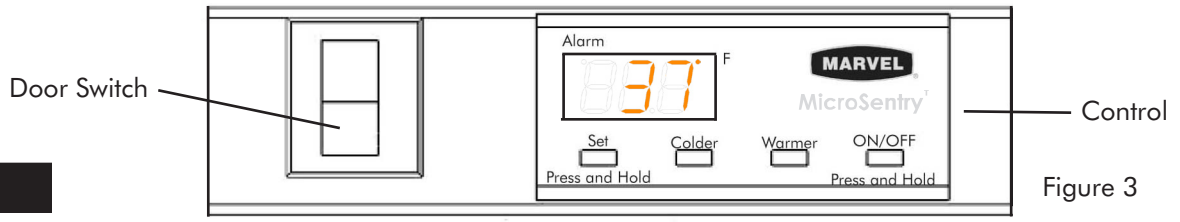


Figure 3

NOTE

During initial startup, or anytime power is interrupted, there will be an approximate 5 minute delay before the refrigerator starts. During this period the controller will be assessing the temperature in the refrigerator and the display will appear erratic, this is normal. The desired temperature set point can be programmed during this start up period.

Starting your refrigerator

The refrigerator will begin start up when initially plugged in or when power resumes after a power outage. At this time the refrigerator will take approximately 5 minutes to begin running as noted above. If the refrigerator has been turned off during use, "OFF" will appear on the display. To start the refrigerator from the "OFF" position press and hold the ON/OFF button for three seconds.

Set temperature

To set temperature set point, press and continue to hold "SET" button. After one second, set point will be displayed. While holding "SET" button use the "WARMER" or "COLDER" button to desired set point.
NOTE: Momentarily pressing & releasing "SET" button will access information menu of control. Refer to appendix A for information on this feature.

Refrigerator operation

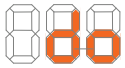
The available temperature range of the refrigerator is 33° to 45° (1° to 7° C).

It may take up to 24 hours for your refrigerator to reach desired temperature. This will depend on amount of contents loaded and number of openings and closings of the door.

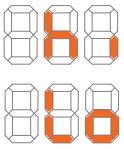
For best results allow refrigerator to "pull down" to desired set point before loading. Once contents are loaded, allow at least 48 hours for temperature to stabilize before making any adjustments to the set point.

Alarms

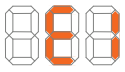
Your MicroSentry™ refrigerator control will monitor refrigerator function and alert you with a series of audible and visual alarms.



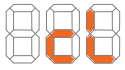
- **Door Ajar Alarm:** If the door has been left open for over five (5) minutes, the alarm will sound in one (1) second intervals. The display panel will flash "do" and the LED light will be a steady amber color. This will stop as soon as the door is closed.



- **High and Low Temperature Alarm:** If your unit reaches an unacceptable temperature outside of your set point, the alarm will sound in one (1) second intervals. The display panel will flash either "hi" or "Lo" depending upon the condition and the LED light will be a steady amber color. "hi" indicates that the temperature is 10° F (5.5°C) above the set point and "Lo" indicates that the temperature is 10° F (5.5°C) below the set point. The alarm will remain active until the condition is corrected.
NOTE: During initial appliance start-up, the high temperature alarm may sound until the interior temperature reaches set point.

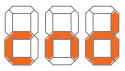


- **Temperature Sensor Fault:** If the controller detects that the temperature sensor is not properly functioning, a temperature sensor alarm will sound. "E1" will flash on the display, and an alarm will sound. Please call Marvel Customer Service or your dealer if this error code is displayed.



- **Condenser Needs Cleaning:** When the refrigerator has reached the recommended amount of run time to necessitate cleaning the air flow, "cL" will flash on the display as a reminder. See the "Care and Cleaning" section for cleaning instructions.

To clear the alarm:

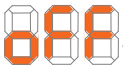
1) Press and release the "SET button four times.
   "cnd"  will be displayed on the screen.
2) While "cnd" is displayed, press and hold the "SET" button. The display will show the number of weeks the refrigerator has been running.
3) While holding the "SET" button, press and release the ON/OFF button. The number shown on the display will reset to 0.
4) Release the "SET" key.

USING YOUR MicroSentry™ REFRIGERATOR CONTROL

Alarm Mute

Press any key to mute the audible portion of an alarm,. NOTE-This action will only mute the alarm. If the condition that caused the alarm continues, the alarm code will continue to flash and will sound for 20 seconds every 60 minutes.

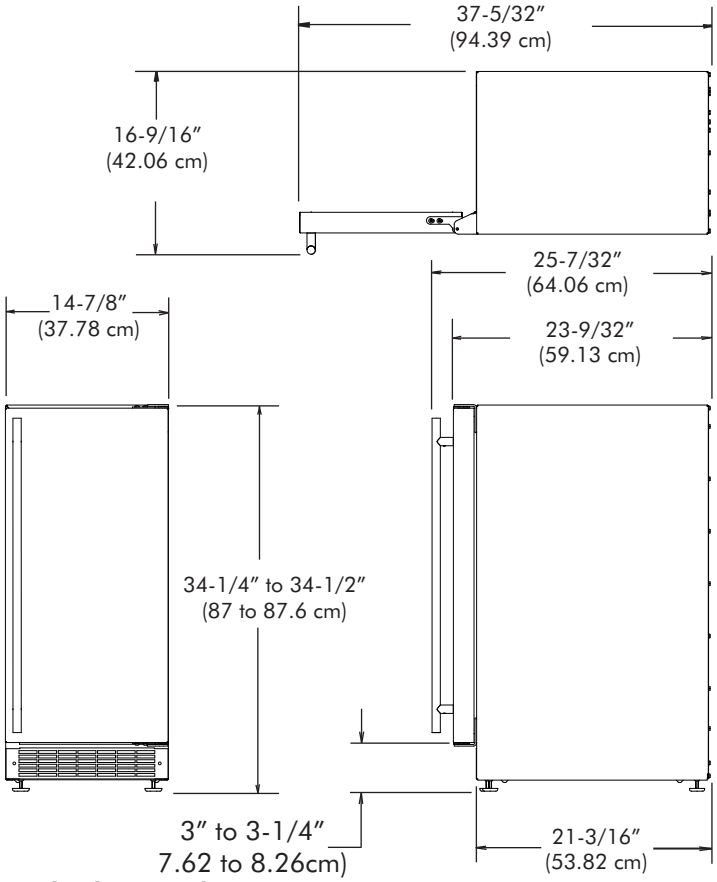
Turning Refrigerator Off

To turn refrigerator off, press and hold "ON/OFF" button for three (3) seconds. "OFF"  will appear on the display

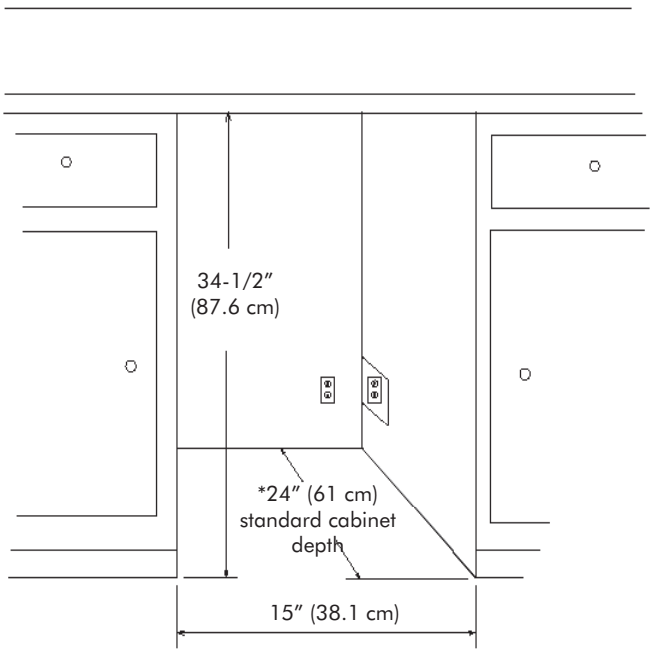
Additional MicroSentry™ Features

Refer to Appendix A for details on additional features available.

DIMENSIONS FOR MODELS 30ARM & 3OARM



Recommended Rough in Opening Dimensions, Models 30ARM & 3OARM



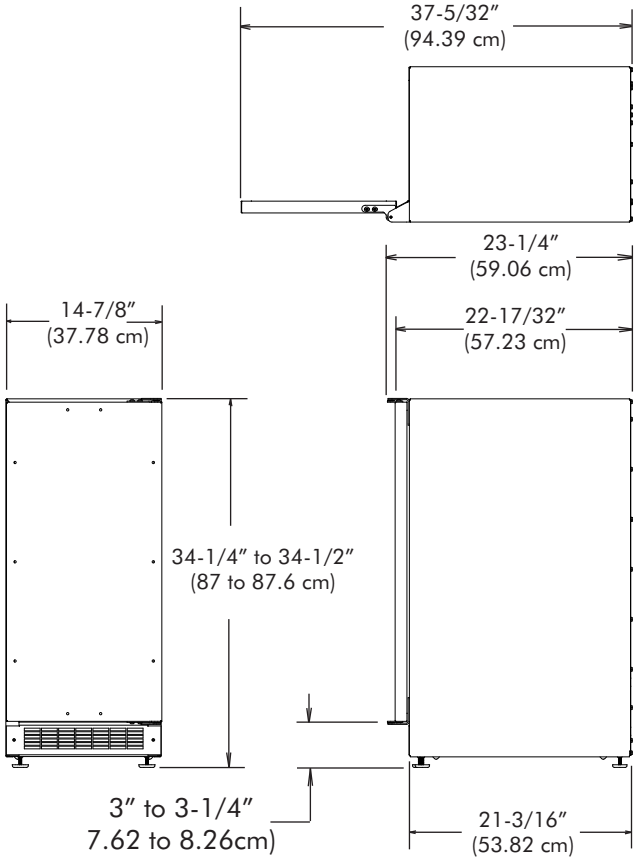
⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

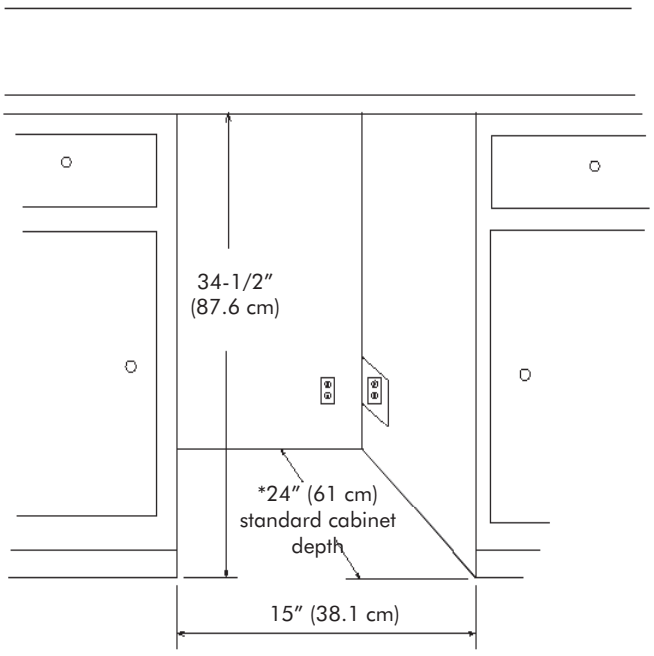
Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 100 lbs. (45.4 kg.)

* Depth dimension may vary depending on each individual installation.

DIMENSIONS FOR MODELS 30ARM WITH OVERLAY DOOR



Recommended Rough in Opening Dimensions, Model 30ARM Overlay Door



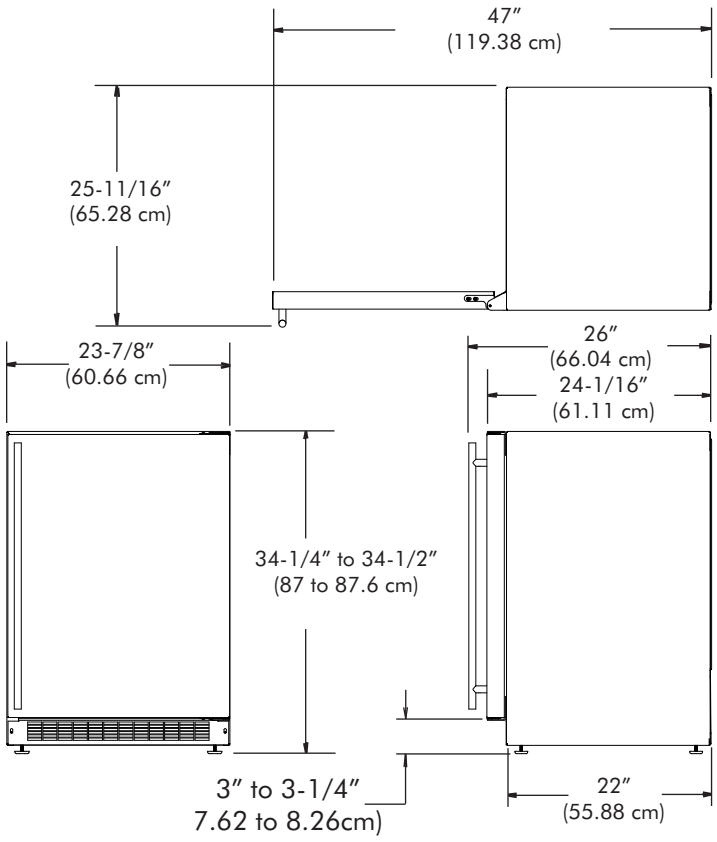
⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

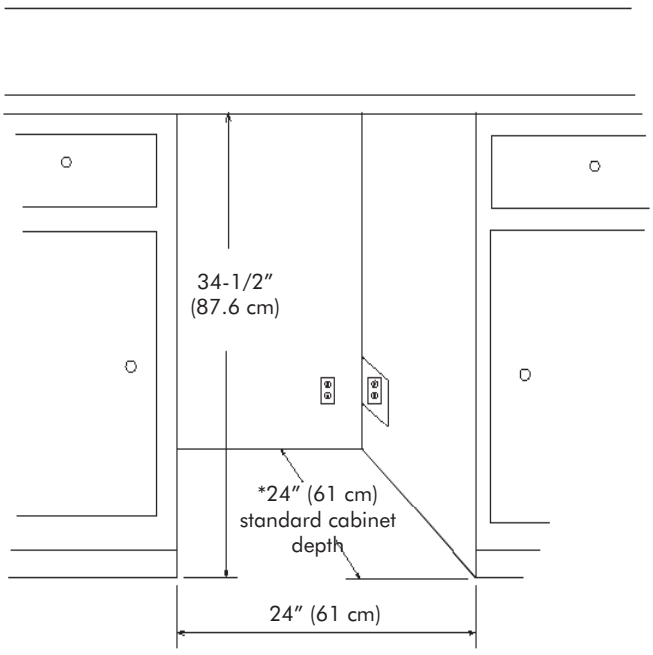
Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 100 lbs. (45.4 kg.)

* Depth dimension may vary depending on each individual installation.

DIMENSIONS FOR MODELS 61ARM & 6OARM



Recommended Rough in Opening Dimensions, Models 6OARM & 61ARM



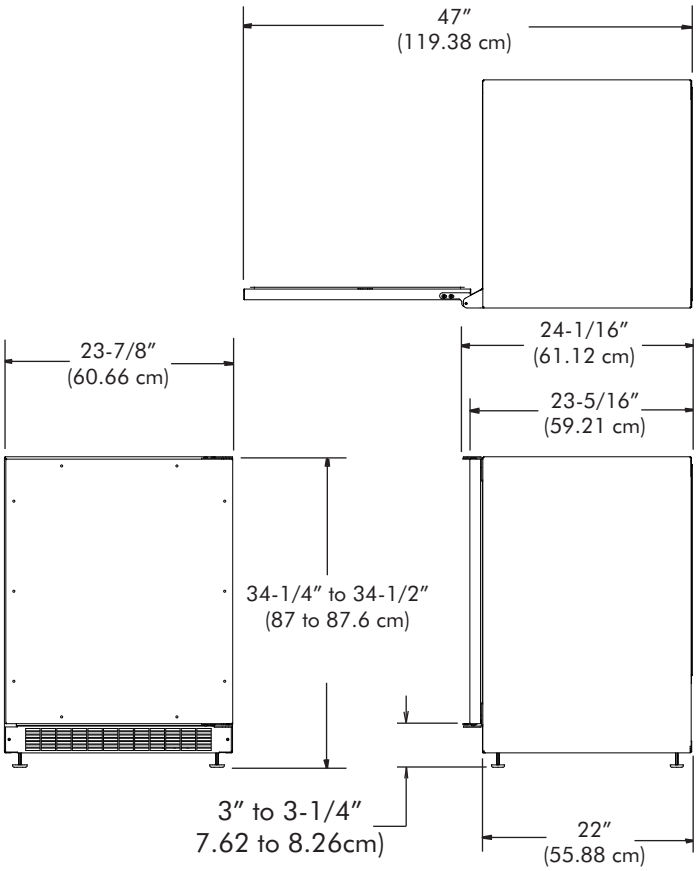
⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

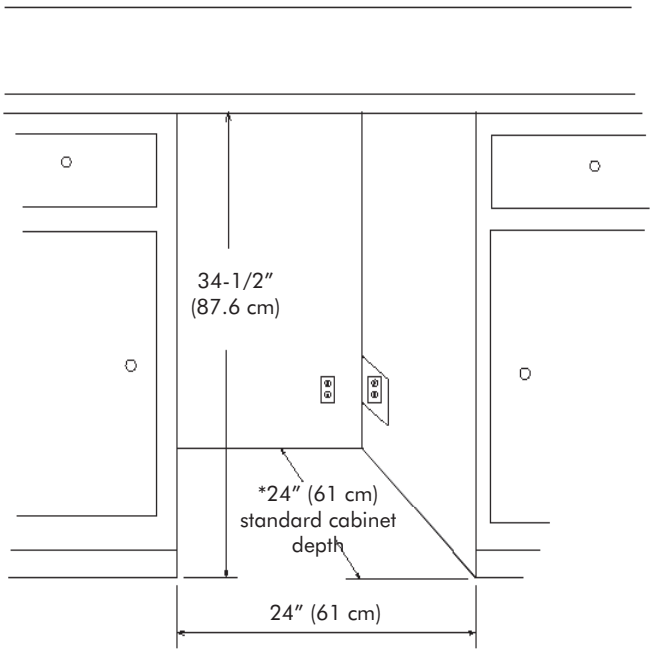
Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 130 lbs. (59.1 kg.)

* Depth dimension may vary depending on each individual installation.

DIMENSIONS FOR MODEL 61ARM WITH OVERLAY DOOR



Recommended Rough in Opening Dimensions, Model 61ARM Overlay Door

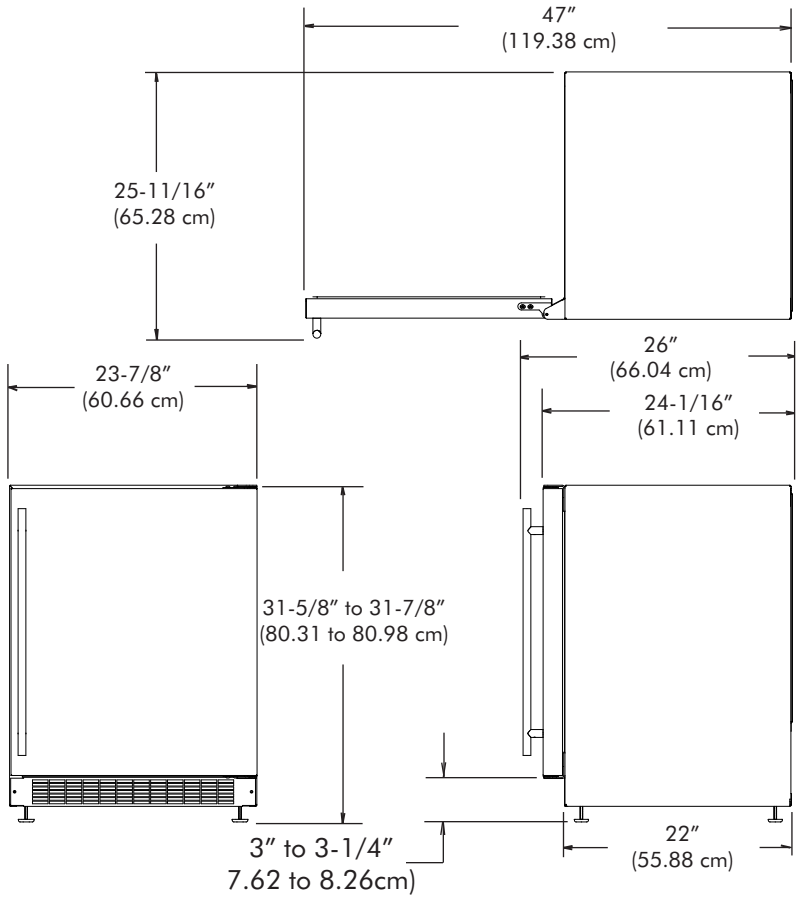


⚠ CAUTION

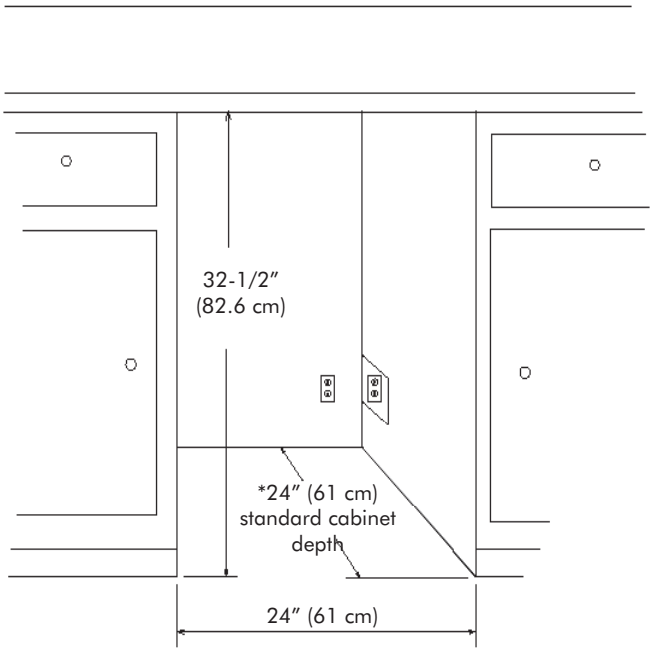
Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 130 lbs. (59.1 kg.)

* Depth dimension may vary depending on each individual installation.



Recommended Rough In Opening Dimensions, Model 6ADAM



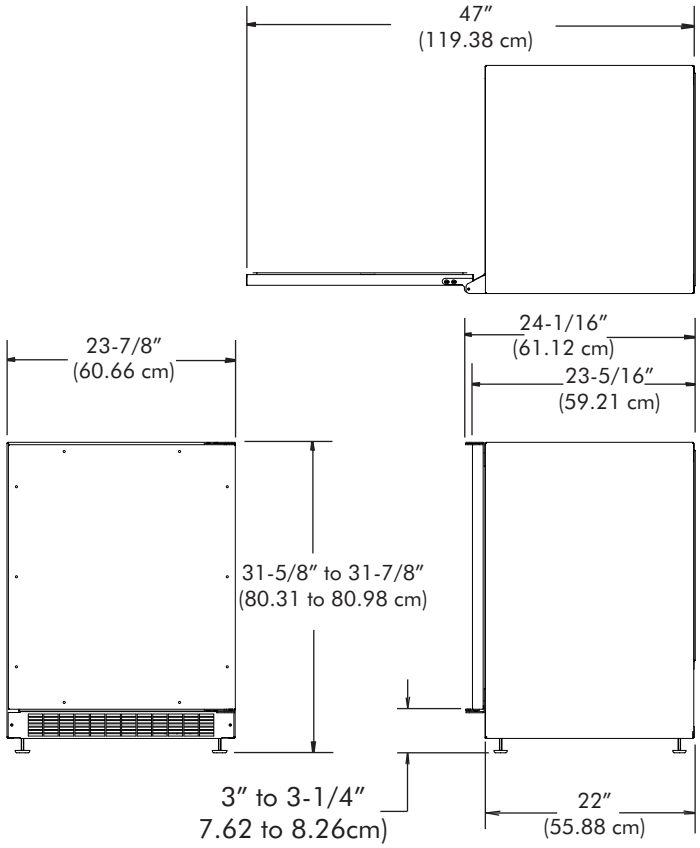
⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

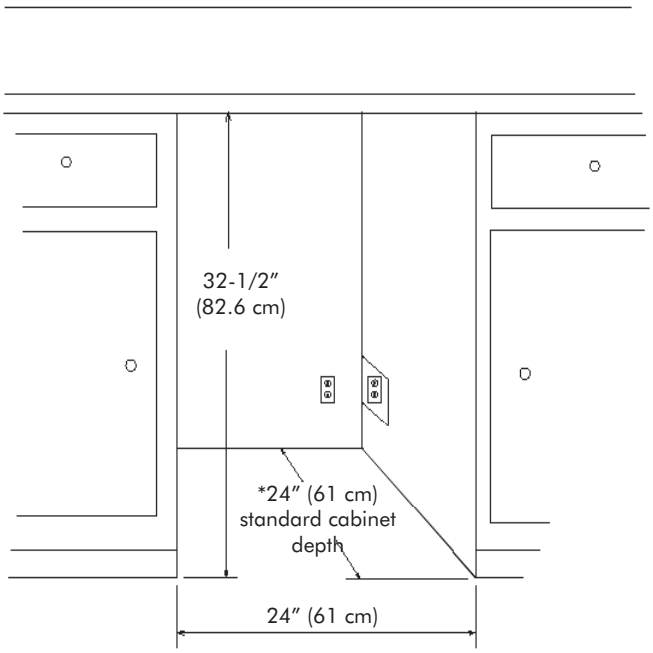
Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 130 lbs. (59.1 kg.)

* Depth dimension may vary depending on each individual installation.

DIMENSIONS FOR MODEL 6ADAM WITH OVERLAY DOOR



Recommended Rough In Opening Dimensions, Model 6ADAM Overlay Door



⚠ CAUTION

Electrical Requirements: 115 volts, 3.3 amps running max. 15 amp dedicated circuit required. 3 prong grounded receptacle required.

Power outlet can be located in the back wall behind unit. Add 1″ to depth for thickness of plug, or recess outlet 1″ into the wall. Power outlet can also be installed in adjacent cabinetry with a cutout for routing of power cord. Follow all local building codes when installing electrical and unit.
Product weight = 130 lbs. (59.1 kg.)

* Depth dimension may vary depending on each individual installation.

⚠ CAUTION

Step 1: Verify door alignment
The door should be parallel to the sides and top of the refrigerator. If alignment is necessary the door may be adjusted by loosening the 2 screws which secure the hinge adapter brackets to the door and adjusting the door side to side. Use a 5/32" allen wrench for this procedure. (See Figure 3 below).

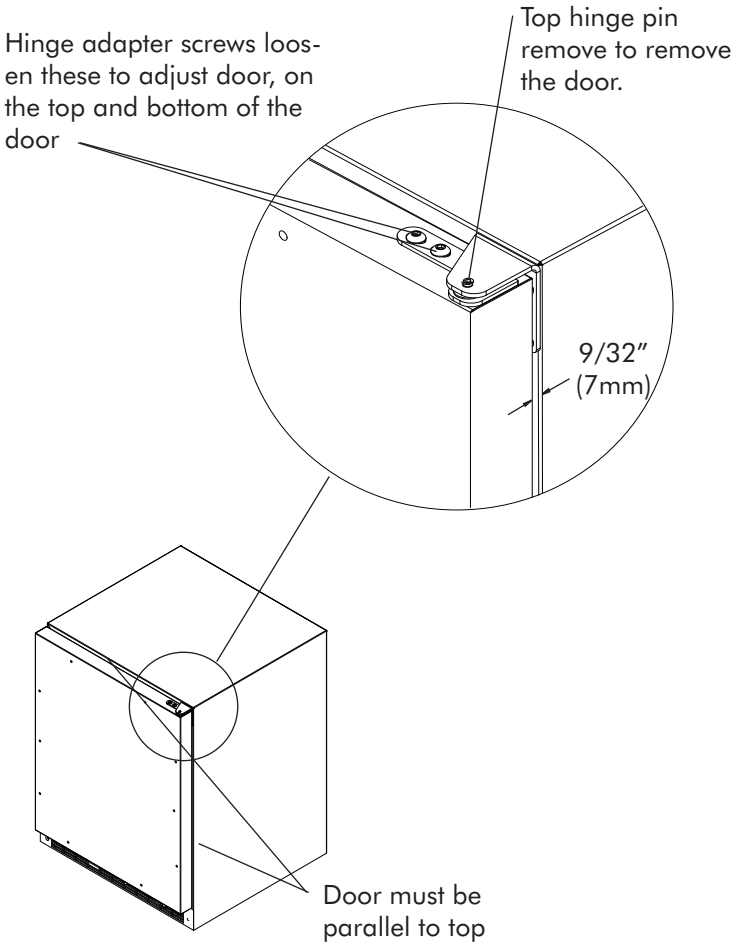

Hinge adapter screws loosen these to adjust door, on the top and bottom of the door
Top hinge pin remove to remove the door.
9/32"
(7mm)
Door must be parallel to top and sides of refrigerator

Figure 3

Step 2: Remove door
Remove the top hinge pin from the hinge with an 1/8" allen wrench. Remove the door by angling the top of the door outward and lifting the door off the bottom hinge. (See detail in Figure 3).

Step 3: Remove gasket
Lay the door on its front being careful not to scratch it. Remove the door gasket by peeling up and out of the channel.

Step 4: Cut overlay panel
Depending on the refrigerator model cut the overlay panel to the dimensions shown in Figure 4 and Table A below.

NOTE

For overlay with lock option panel thickness to be 3/4" (19mm) maximum to 5/8" (16mm) miniumum.

⚠ CAUTION

Weight of the overlay panel should not exceed 20 pounds (9.1 kilograms).

NOTE

For the door closer to work properly it is necessary to maintain a minimum space of 9/32" (7mm) between the door and cabinet flange as shown . This space can be adjusted by adjusting the top and bottom hinge adapters.

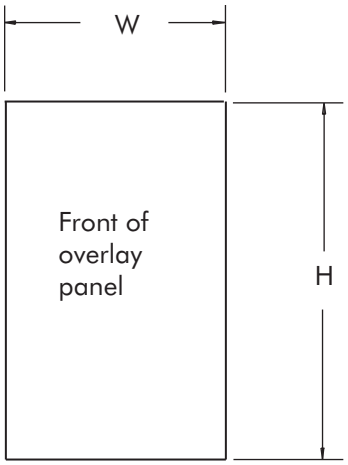


Figure 4

Model	W	H
30ARM	14-5/8" (37.13cm)	30-5/16" (76.99cm)
61ARM	23-5/8" (59.99cm)	30-5/16" (76.99cm)
6ADAM	23-5/8" (59.99cm)	27-11/16" (70.33cm)

Table A

Step 5: Clamp panel to door
Set the overlay panel on the door front, align the edges, and clamp together. Clamp the panel firmly but be careful not to crush the foam in the door or scratch the door.

Step 6: Drill holes in overlay panel
Remove the hinge adapter bushings from the top and bottom door hinge adapters. (See Figure 8).Using the holes in the hinge adapters drill 5/16" (8mm) diameter clearance holes into the overlay panels 3/4" (20mm) deep. These will be clearance holes for the top and bottom hinge pins.

Also at this time drill the screw pilot holes (10 required) for attaching the overlay panel to the door. Select the size of the hole from Table B. Be careful not to drill the pilot holes through the overlay panel but only 1/2" (12.7)mm deep.

Material Type	#8 Wood Screw
Hardwood	3/32" (2.4mm) Diameter. Pilot Hole
Softwood	5/64 (2.0mm) Diameter. Pilot Hole

Table B

NOTE

If your refrigerator has a door lock proceed to Step 7. If your refrigerator does not have a door lock proceed to Step 9.

Step 7: Mark and drill lock hole.
Locate and mark with a pencil the location of the lock hole on the overlay panel, this is the hole in the top corner of the handle side of the door. Remove the clamp and remove the overlay panel from the door. On the backside of the panel where you marked the lock location drill a 13/16" (20.5mm) diameter counterbore 7/16" (11.0mm) deep into the overlay panel. Drill a 15/32" (12.0mm) diameter hole through the overlay panel centered on the counterbore being careful not to splinter the wood on the face side of the panel. (See Figure 5).

Step 8: Assemble the lock parts
Two (2) lock extensions are supplied with the lock. Use the longer extension for a 3/4" thick overlay panel and the shorter one for a 5/8" thick panel. Assemble the lock extension, cam stop washer, spring washer, and set screw to the lock as shown in Figure 5 and 6.

Install this assembly into the overlay panel and secure with the retaining nut using a 15mm socket. Make sure the key slot in the lock is vertical.

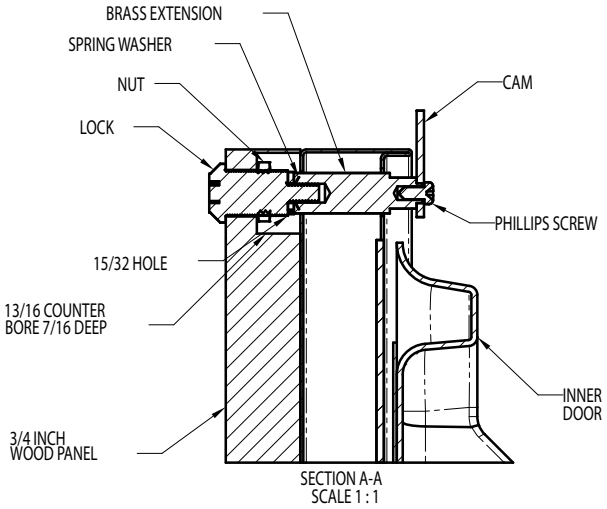


Figure 5

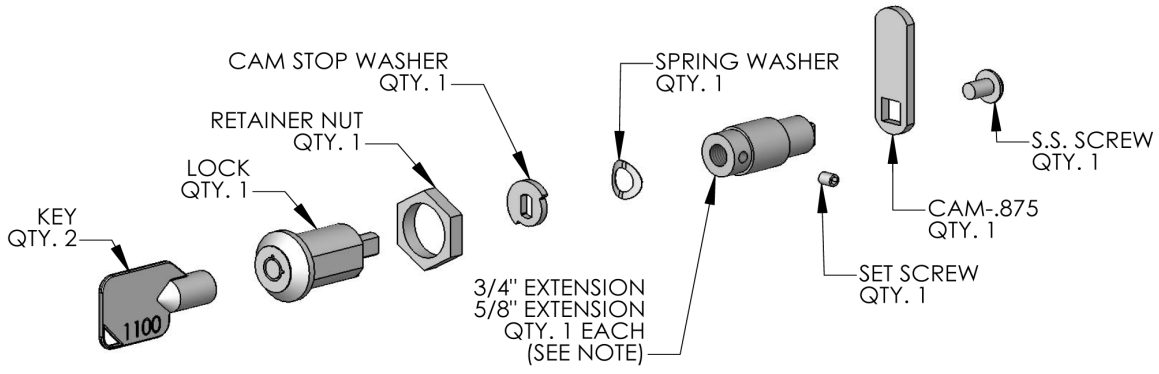


Figure 6

Step 9: Secure overlay panel to the door.
With the #8 wood screws provided fasten the overlay panel to the door. (See Figure 7).

Step 10: Install lock cam (Models with locks only).
Attach the lock cam to the back of the lock assembly with the phillips head machine screw provided. Orient the lock cam vertically when installing on the lock.

Step 11: Install door gasket
Press the door gasket into the door channel. Make certain the gasket corners are fully inserted. If applicable insert the key into the lock and make certain the lock operates properly.

Step 12: Install the door
Install the top and bottom hinge adapter bushings back into the hinge adapters that were removed in step 6. Install the door by reversing the procedure from step 2. Install the top hinge pin so the screw head is flush with the top surface of the hinge. If applicable insert key into lock and verify the lock cam works properly with the catch bracket on the front of the refrigerator cabinet.

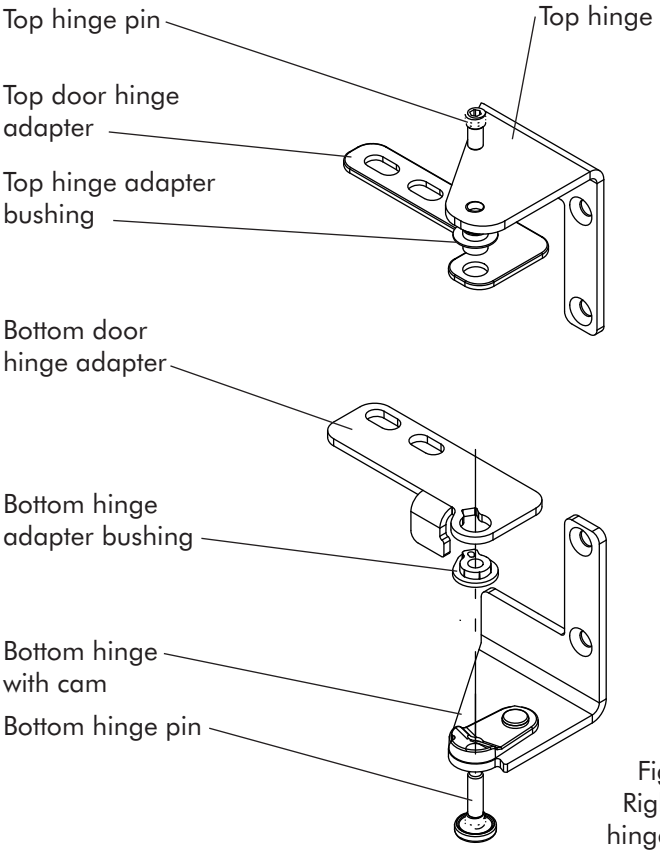


Figure 8
Right hand hinges shown

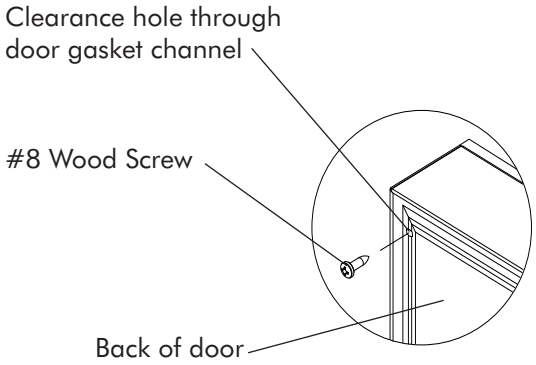


Figure 7

CARE AND CLEANING

Condenser Air Flow

The machine compartment located beneath the cabinet does not require frequent cleaning; however, satisfactory performance depends on adequate ventilation. Be sure nothing obstructs the required air flow openings in front of the cabinet. At least once or twice a year, brush or vacuum lint and dirt from the front grille openings. See Figure 1 on page 3.

Cabinet

The painted cabinet can be washed with either a mild soap and water and thoroughly rinsed with clear water. NEVER use abrasive scouring cleaners.

Interior

Wash interior compartment with mild soap and water. Do NOT use an abrasive cleaner, solvent, polish cleaner or undiluted detergent.

Care of Unit

1. Avoid leaning on the door, you may bend the door hinges or tip the unit.
2. Exercise caution when sweeping, vacuuming or mopping near the front of the unit. Damage to the grille can occur.
3. Periodically clean the interior of the unit as needed.
4. Periodically check and/or clean the front grille as needed.

Before You Call for Service

If the unit appears to be malfunctioning, read through this manual first. If the problem persists, check the troubleshooting guide below. Locate the problem in the guide and refer to the cause and its remedy before calling for service. The problem may be something very simple that can be solved without a service call. Some remedies listed in the Troubleshooting Guide are very complex. Consulting or contracting a qualified service technician may be necessary.

If Service is Required:

- If the product is within the first year warranty period please call Marvel Customer Service at 800.223.3900 for directions on how to obtain warranty coverage in your area.
- If the product is outside the first year warranty period, Marvel Customer Service can provide recommendations of service centers in your area. A listing of authorized service centers is also available at www.marvelrefrigeration.com under the service and support section.

- In all correspondence regarding service, be sure to give the model number, serial number, and proof of purchase.
- Try to have information or description of nature of the problem, how long the unit has been running, the room temperature, and any additional information that may be helpful in quickly solving the problem.
- Fill in pertinent information below regarding your product for future reference.

For You Records	
Date of Purchase	
Dealer's name	
Dealer's Address	
Dealer's City	
Dealer's State	
Dealer's Zip Code	
Appliance Serial Number	
Appliance Model Number	
Date Warranty Card Sent (Must be within 10 days of purchase).	

⚠ WARNING

Electrocution Hazard - Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected.

Problem	Possible Cause	Remedy
Unit not cold enough Adjust temperatures (See "Set the desired temperature" on page 13)	• Control set too warm • Airflow to front grille blocked. • Excessive usage or prolonged door openings. • Door gasket not sealing properly.	• Adjust temperature colder. Allow 24 hours for temperature to stabilize. • Airflow must not be obstucted to front grille. See "clearances" on page 3. • Allow temperature to stabilize for at least 24 hours. • Adjust or replace door gasket.
Unit too cold Adjust temperatures (See "Set the desired temperature" on page 13)	• Control set too cold	• Adjust temperature warmer. (See page 13, "set the desired temperature"). Allow 24 hours for temperature to stabilize.
No interior light in cabinet.	• Light bulb burned out.	• Replace light bulb.
Light will not go out when door is closed	• Door not activating light switch.	• Verify cabinet is level, refer to page 3 for leveling instructions. • Verify the door is aligned properly, refer to page 12 for instructions.
Noise or Vibration	• Unit not level	• Level unit, see "Leveling Legs" on page 3.
Unit will not run.	• Unit turned off • Power cord not plugged in. • No power at outlet.	• Turn unit on. See "Start your Appliance" on page 13. • Plug in power cord. • Check house circuit.

HOUSEHOLD PRODUCT WARRANTY

Entire Product
Limited One Year Parts and Labor Warranty
Marvel warrants that it will supply all necessary parts and labor to repair or replace in the end user's home or office, any component which proves to be defective in material or workmanship, subject to the condition and exclusions stated below, for a period of one year from the date of purchase by the end user.

Additional Second Through Fifth Year
Limited Parts Only Warrranty
During the four years following expiration of the one year limited warranty, Marvel will supply replacement parts for the hermetically sealed refrigeration system which consists of the compressor, condenser, drier, accumulator, bypass valve, connecting tubing and the evaporator that are proven to be defective due to workmanship or materials subject to the conditions and exclusions below.

The above warranties do not cover:

- Shipping costs of replacement parts or returned defective parts.
- Customer education or instructions on how to use the appliance.
- Any content loss due to product failure.
- Removal or installation of product.

Nor do the above warranties cover failure of this product or its components due to:

- Transportation or subsequent damages.
- Commercial use or use other than normal household or small office.
- Improper installation, misuse, abuse, accident or alteration, use of wiring not conforming to electrical codes, low or high voltages, failure to provide necessary maintenance, or other unreasonable use.

Parts or Service
Not Supplied or Designated by Marvel
The above warranties also do not apply if:

- The original bill of sale, deliver date, or serial number cannot be verified.
- Defective parts are not returned for inspection if so requested by Marvel.
- The refrigeration equipment is not in the possession of the original end use purchaser.

The warranties set forth herein are the only warranties extended by Northland-Marvel. Any implied warranties, including the implied warranty of merchantability, are limited to the duration of these express warranties. In no event shall Northland-Marvel be liable for any consequential or incidental damages or expenses resulting from breach of these or any other warranties, whether express or implied.

Some states do not allow the exclusion or limitation of consequential damages or a limitation on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may have other rights that may vary from state to state.

No person, firm, or corporation is authorized to make any other warranty or assume any other obligation for Northland-Marvel. These warranties apply only to products used in any of the fifty states of the United States and the District of Columbia.

To obtain performance of this warranty, report any defects to:

Northland-Marvel
P.O. Box 400
1260 E. Van Deinse St.
Greenville MI 48838

Phone: 800.223.3900

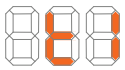
Information Menu:

The following features are available on the Information Menu.

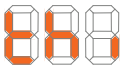
- Current Temperature
- Maximum Stored Temperature
- Minimum Stored Temperature
- Total Operating Time Of The Condenser
- Keypad Lockout

To access the Information Menu Press "SET" button momentarily and release.

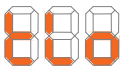
Once in the information menu, the WARMER and COLDER keys may be used to scroll through the information menu. Additionally, pressing and releasing the SET key will advance the information menu.
The information menu will automatically exit after several seconds with no key presses.



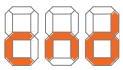
Current Interior Temperature (tI): Press and hold the "SET" key to display the current interior temperature.



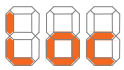
Maximum Stored Temperature (thi): Maximum stored temperature is the maximum temperature refrigerator has achieved since temperature set point was entered. Press and hold the "SET" key to display the maximum temperature stored. The data can be cleared by pressing "SET" and "ON/OFF" simultaneously while the value is displayed. NOTE: It is normal for refrigerator temperature to fluctuate from set point by several degrees.

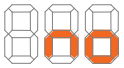


Minimum Stored Temperature (tLO): Minimum stored temperature is the minimum temperature refrigerator has achieved since temperature set point was entered. Press and hold the "SET" key to display the minimum temperature stored. The data can be cleared by pressing "SET" and "ON/OFF" simultaneously while the value is displayed. NOTE: It is normal for refrigerator temperature to fluctuate from set point by several degrees.



Total Operating Time of the Condenser Since the Last Cleaning (cnd): Press and hold the "SET" key to display the total operating hours of the compressor since the last cleaning. The control stores the total operating hours of the compressor to determine the volume of air that has moved across the condenser coils. This number is displayed in weeks. A reminder is displayed when a cleaning is recommended (see Alarm Codes). The recommended cleaning period is the equivalent of one year of air volume. The data can be cleared by pressing the "SET" and "ON/OFF" keys simultaneously while the value is displayed.



Keypad Lockout Feature (Loc): This feature is useful for prohibiting changes in the temperature set point or accidentally turning the unit off. Press and hold the "SET" key to display the current "Loc" setting. If "No"  is displayed, Lock out is OFF and all keys are enabled. If "Yes" is displayed, Lockout is ON and the "ON/OFF", "WARMER", and "COLDER" keys are disabled. However, the key tones remain enabled. While holding the "SET" key, press the "WARMER" or "COLDER" key to select the desired state. Release the "SET" key to confirm the selection.

NOTE: The Information/Lockout Key "SET" remains enabled regardless of the "Loc" setting.

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www.marvelrefrigeration.com

Northland-Marvel
P.O. Box 400
1260 E. Van Deinse St.
Greenville MI 48838

800.223.3900

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